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under *Nowellia*; *Odontoschisma elongatum* is a variety of *O. denudatum*; *Calyptogeia fissa*, *suecica*, and *sphagnicola* are retained as varieties of *C. trichomanis*; *Bazzania trilobata* and *Pearsoni* are placed under *Pleurochisma*, and *Porella laevigata*, *platyphylla*, and *rivularis* under *Madotheca*. *Bazzania tricrenata* is listed as a synonym of *Pleurochisma triangulare* (Schleich.) Loeske, and *Porella pinnata* is under *Madotheca porella*. *Lejeunea cavifolia* is treated under *Eulejeunea*. Schiffner is followed in regarding Huebener's *Jungermannia catenulata* (*Cephalozia catenulata* Spruce) as not different from *Cephalozia reclusa* (Tayl.) Dum.

In citations it is to be noted that DeNotar is uniformly given for DeNotaris, and D. C. is used for DeCandolle.

Altogether there are described, or at least critically discussed, 329 species, quite a large proportion of which also occur in North America. Both as to figures and descriptions this manual should prove useful as a reference book even for the hepatics of the United States.

O. E. JENNINGS

CARNEGIE MUSEUM, PITTSBURGH, PA.

MISCELLANEOUS NOTES

Course on Bryophytes offered at Michigan Biological Station.—

Dr. George E. Nichols writes that last summer he conducted a course at the University of Michigan Biological Station on the Taxonomy of the Bryophytes and expects to give the course again this coming summer. The Station is located on a tract of 3200 acres of land owned by the University of Michigan and is located between Douglas and Burt Lakes about 17 miles south of the Straits of Mackinac. Despite unfavorable first impressions, Dr. Nichols found the region bryologically quite rich. Not all collections are yet identified but, up to date of writing, he had named 56 liverworts, 15 sphagnums (plus several varieties), and 130 mosses. These specimens include about 90 species not before recorded from Michigan.

O. E. J.

Fossombronia cristula, Life History of. Arthur W. Haupt. Bot. Gaz. 69: 318-331. 4 pls. April, 1920. The vegetative body is a minute creeping branched thallus with two dorsal rows of genuine leaves. Monoecious, with sex organs in the axils of leaves, and antheridia and archegonia may occur in the same axil. In the archegonium the cover cell is inactive; 6-8 neck canal cells are formed; and the venter is two cells thick before fertilization. The calyptra becomes 3-4 cells thick. The sporophyte is primitive; the sporogenous tissue is differentiated early; and the elaters are rudimentary, each being homologous with a single mother-cell and not with a row of them. The mature capsule is globular or nearly so and its wall is invariably two cells thick and bears rudimentary annular and half-ring fibers on the cell-walls of the inner layer. The material studied was found by the author in cracks on fine wet deposits of silt on the bottom of an almost extinct lake in the Dune Park region in northern Indiana.

O. E. J.

Word has come to us that the large **herbarium of Dr. Julius Roell**, comprising some 30 "Bände" of Sphagna, 40 of Musci, and 50 of Phanerogams, besides ferns, hepatics, lichens, etc., is for sale. The material comes from all parts of Europe, besides considerable of exotic origin, duplicates, and microscopic mounts. Dr. Röhl prices his collection at \$5,000.

We are also informed that **Dr. Istvan Gyoerffy**, formerly of Kolozsvár, is now at Budapest. Dr. Györfy was compelled to leave all of his possessions at Kolozsvár, and is anxious to obtain publications or separates issued since 1914. His address is Budapest II, Kis Rókosgasse, Nr. 15, Hungary.

Dr. Th. Herzog informs us that he has for sale some small collections of exotic mosses, mostly from Bolivia. While details are lacking, we assume that lots of 50 or 100 specimens are meant. We shall endeavor to obtain further information, and will gladly furnish it to any North American moss student who may care to purchase specimens.

E. B. C.

SULLIVANT MOSS SOCIETY NOTES

Mr. Stewart H. Burnham has recently joined the staff of the Department of Botany, New York State College of Agriculture, at Ithaca. The Herbarium of the Department has recently purchased from Dr. J. K. Small his large collection of mosses, hepatics, and lichens—some 12,000 specimens—and will ultimately own, also, the botanical collections which Mr. Burnham has brought with him. Mr. Burnham's address for the future will be as above, instead of Hudson Falls, N. Y.

We regret to announce the death last August of **Mrs. Anna B. McConnell** of Watch Hill, R. I., a member of the Sullivant Moss Society since 1902. Mrs. McConnell was a very active worker in many organizations, being especially interested in geographical exploration. She nevertheless always found time for an encouraging word for the Moss Society and for its work, though not often a contributor to the columns of *THE BRYOLOGIST*. The writer well remembers a chance meeting with Mrs. McConnell at Lake Louise, Alberta, on an afternoon when any collecting had to be done in the intervals of snow squalls, and the delight which she took in the plants growing beside the trails and over the terminal moraine of the great glacier. The members of the Sullivant Moss Society, we are sure, will join with the writer in extending sincere sympathy to Mrs. McConnell's family.

The announcement has already been made of the death last January of **Dr. Lincoln W. Riddle**, during the past year Vice-President of the Moss Society. The Secretary has already extended to Mrs. Riddle and family the sincere sympathy of the Society and of its officers. A more extended notice of Dr. Riddle's work will appear in a later issue of *THE BRYOLOGIST*.

Mr. Otto McCreary, of Geneva, N. Y., and Rev. S. M. Newman have resigned from membership in the Moss Society since the appearance of the annual report, and Miss Julia Cornelius, of 669 Holly Ave., Winston-Salem, N. C., has joined the Society.

E. B. C.